

MEETING MINUTES

Jersey City Environmental Commission

City Hall – 280 Grove Street, Jersey City NJ 07302

Gerald F. Nicholls, Chair Sara K. Schultzer, Vice Chair

Meeting: Jersey City Environmental Commission Public Meeting

Date / Location: 17 March 2015 – 6:30 p.m.

Council Chambers, 2nd Floor, City Hall, 280 Grove Street, Jersey City, NJ 07302

Attendees: Commissioners/City Representatives Public Participants

Tanya Marione Lyndsey Scofield (SJC)

Gerry Nicholls Alison Cucco (URS, environmental)

Sara Schultzer Amanda Khan (JCPC)

Mario Verdibello Elna Mukaida (JCPC, HPNA)
Michelle Luebke Florence Holmes (JCPC)
Dennis Whiltinghill (Riviv JC)

Niels Cabellane (WDA)

Nick Caballero (WPA) Beverly Brown

Jeff Kaplowitz (C21 Plaza)

Ashwani Vasishth

Susan Newman (Frogs Are Green) Mory Thomas (JCPC/WPA) Tim Keating (Earthbilt)

Claudia Coffman

Michael Place (bicyclist) Elizabeth Reynoso (resident)

Prepared By: Sara Schultzer

Date Prepared: 8 April 2015

ROLL CALL

Four of nine commissioners (seven members and two alternates) were present; four constitutes quorum. Commissioners Ristorucci and Solowsky were absent, and three commissioner positions remain unfilled.

NEW BUSINESS – PRESENTATION BY RUTGERS LANDSCAPE ARCHITECTURE STUDIO: JERSEY CITY ENVIRONMENTAL RESOURCES

- Chair Nicholls welcomed and thanked Professor JeanMarie Hartman, PhD and her students.
- Doctor Hartmann introduced her students (Anthony, Shaun, Josh, Christy, Brianna, Johnny) and requested that everyone provide constructive feedback on their work.
- Providing JCEC with 11x17 sets, environmental inventory, and digital copies (attached to these minutes)

Anthony: Overview

- Scope: Exchange Place to Grove Street.
- Descriptive Board of each area: Heights, JSQ, West Side.

Meeting Minutes

Shaun: 6 Design Solutions

- Functional, Land Use, Redevelopment
- Goals: integrate
- Learn and incorporate local regulations from agencies, i.e., ADD detectable warning systems.
- JSO
- Bergen Arches: abandoned railroads, work w existing plants

Josh: Reenvisioning Streetscapes

- JFK: move parking to increase visibility, implement infrastructure to slow traffic/color code private/public/ease pedestrian walkway, "public arts committee/community," Bike Paths:
- Center St:
- Ocean Ave:

Christie: Access to Public Transportation

- Transportation Interchange
- Harborside HBLR Station: Hardscapes/barriers/lack of seating
- MLK Dr
- Westside Ave
- CSO Reduction: inventory vacant lots, increase impervious surface area, ROWB/Rain Gardens, lower cost options: Rain Barrels and Wetlands
- 6 different designs on walls.

Breakout Session:

Commissioners and public could view the boards and interact with the students.

Q&A:

- Implementation? Energy/momentum to move ideas forward, pressure to change legislation/regulations, ease processes/instruments
- Rolland JC legislature: 3 easy lifts for City Council? Responses included community involvement, state government storm water fee (like Philadelphia does), fund pilot GI projects implementable with zoning changes. Redevelopment plan and building code for new building development.
- Transportation Areas with overhead stations can incorporate green and solar?
- Bicycle ridership stats and # racks at stations? No stats on ridership.
- Take into account rebuilding with energy efficiency (Japan kinetic foot panels for energy)
- During their research, the students spoke with City Planning (Bob Cotter) and provided ArcGIS information. He was enthusiastic to a very walkable city with GI and public transportation.
- Knowing your audience's needs/priorities and ever-changing needs w growth/projecting for
 future: They took that into account, changing attitudes to gain streetscapes lose closer parking,
 cultural shift with younger generation and overall



Meeting Minutes

GENERAL PUBLIC PARTICIPATION

Gregg Lanez

- Use of volcanic rock in public parks for carbon sequestration
- JMH noted is natural resource requiring strip mining.
- Other materials like that to consider.

Sustainability themes in Jersey City

- CSO reduction
- storm resiliency
- underserved sustainability
- Issues managing trash and recyclables

CLOSING REMARKS AND OTHER BUSINESS BY COMMISSIONERS

None.

ADJOURNMENT

The meeting was adjourned at 8:45 p.m.

NEXT MEETING

The next Environmental Commission is scheduled for 14 April 2015 at 6:30 p.m. in the Caucus Room, 2nd Floor, City Hall, 280 Grove Street, Jersey City, NJ 07302.

*** There will be a Tree Canopy Study Open House on 2 May 2015 ***





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MEMO

Gerald Nicholls TO:

Jersey City Environmental Commission

FROM: JeanMarie Hartman, Ph.D.

DATE: March 17, 2015

RE: Student Work and digital files

I am pleased to share the work our students did during the fall semester of 2015. They learned a lot during the course and I hope they will see some of their efforts influence your commission and city.

The educational purpose of this type of design exercise should be understood by you and those you share these reports and designs with. Students need to understand real environmental settings when they design landscapes. Their design work is better when they consider the real environmental concerns and people whose quality of life can be improved. So we appreciate that Jersey City – including the Mayor's Office, the City Council, and the Environmental Commission has helped us with this project. We also appreciate the time and attention contributed by some of the NGO's in Jersey City.

However, this is a set of student projects, there may be errors, oversights, or misunderstanding. They are for discussion and inspirations and idea generation. The Environmental Inventory needs additional documentation and field checking. A completed Environmental inventory would allow you to make better evaluations of

the city's master plan,

the potential impacts of new development and re-development

the potential impacts of zoning waivers

the potential impacts of zoning changes

Ideally, the document should be able to help incoming politicians set priorities in their agenda that relate to the health and quality of life of their constituency.

This was an opportunity to begin the development of a contemporary Urban Environmental Resource Inventory for a community that is facing staggering rates of change and major environmental justice issues.

With your support and the help of Sustainable Jersey City, I have applied for funding to complete this task. If that funding proposal is not successful, I hope we can discuss ways to find funding to complete this important task with the professional and technical quality you need.

Keep in touch and keep up the good work!

Five Design Studies for Jersey City

Developed by the Students in
Intermediate Landscape Architecture I (Fall 2014)
From

Department of Landscape Architecture
School of Environmental and Biological Sciences
Rutgers, The State University of New Jersey
New Brunswick, NJ

Course Instructors:

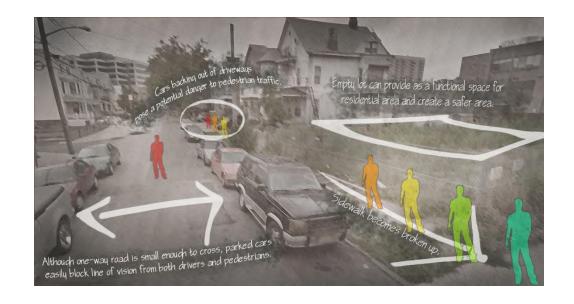
David Smith

JeanMarie Hartman, Ph.D.

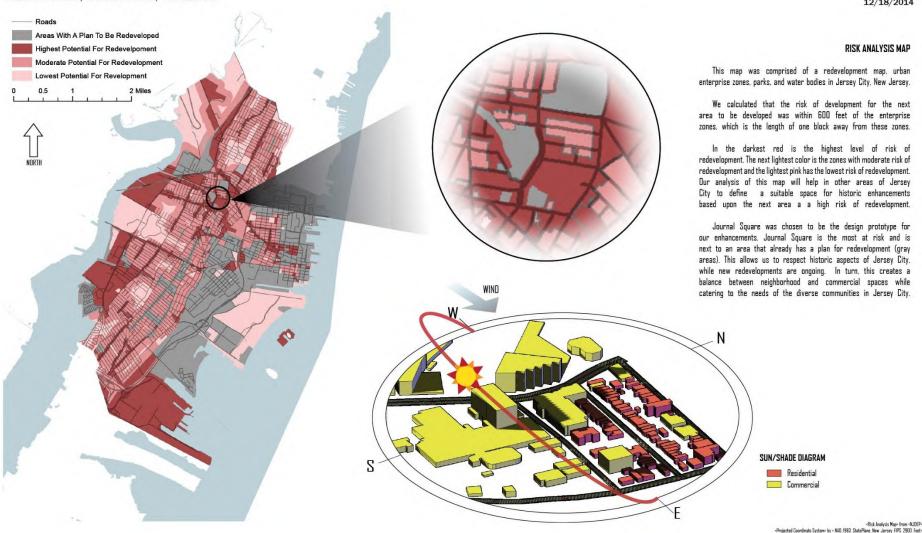
Design Topic

- 1.) Historic Enhancements
 - 2.) Bergen Arches
- 3.) Re-Envisioning Streetscapes
 - 4.) Improving Bike Paths
 - 5.) CSO Event Reduction

12/18/2014



12/18/2014



12/18/2014 SIDEWALKS SEATING USE PLANTS AS BUFFERS TRASH RECEPTACLES REDUCE NOISE LIGHTING FIXTURES CONNECT HISTORIC ELEMENTS WITH TIME PERIODS CREATE POCKET PARKS RESTORE IDENTITY TO JERSEY CITY TIE IN RESIDENTIAL AND COMMERCIAL AREAS INTERACTIONS THE REAL PROPERTY.

INTEGRATE WITH COMMUNITY

Before development of Journal Square, it was the site of farmhouses and manors belonging to descendents of Bergen, south of Bergen Square



NewKirk House was built and is often known as the Summit House. It is one of the oldest surviving structures in Journal Square. The house is comprised of different building materials that have been maintained up to this day.



Appletree house was built in 1750, There was an addition added in the 1820s. The house may have been the site of a meeting between George Washington and the Marquis de Lafayette in



Journal Square was created when they condemned and demolished the offices of the Jersey Journal and



The bridge that supports JFK boulevard was completed by Abraham Burton Cohen, an American Civil Engineer known for famous concrete bridges.



Labor Bank Building is built, being the city's first skyscraper, and the original headquarters for Labor National Bank. It has a Beaux-Arts architectural style, and was designed by John T. Rowland.



Stanley Theatre opened and became the 6th largest movie palace in the country in 1928. It was purchased by the Watchtower Bible and Tract society to be restored as a regional Jehovah's Witnesses Assembly Hall.

CONNECT WITH PEOPLE



In 1929, Loew's Theater

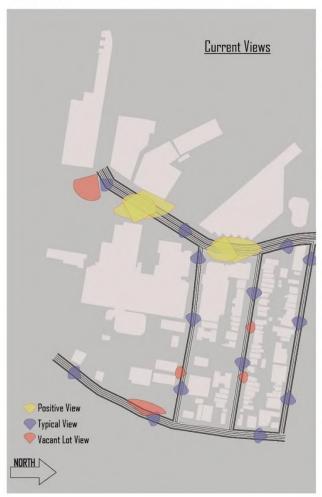
opened it's doors, in 1986 it was sold to NJ's Before being named Kennedy Blvd, it was largest developer and the known as the Hudson palace closed its doors. Six year crusade began Boulevard until being to stop the demolition named after John F. Kennedy shortly after of the theatre, which his assassination when drew out many preservationists and he gave his last speech in his campaign two

FUNCTION OF STREETS



«Timeline Images Sources in Order: njcu edu, njcu edu, hudsoncountynjgenealogy org. njcu edu, wikipedia org. wikipedia org. filickr.com, destinationjerseycity.com, nj.com

12/18/2014









Most Dangerous Area



12/18/2014





16"x16"x16" \$400

Abelia x Grandiflora Itea Virginica Iron-grid Planters ennoyer and Newman

Brick Flooring

\$11.49 avg cost/sqft with labor Concrete Footing \$90/cubic yd \$60 delivery/load











RESIDENTIAL STREET - VAN REIPEN AVENUE



TREE CHOICES: Eastern White Pine

Sweetbay Magnolia Flowering Dogwood Serviceberry







Ultra Play 6ft Black Steel Rectangle Picnic Table \$956.56 Lowe's Store



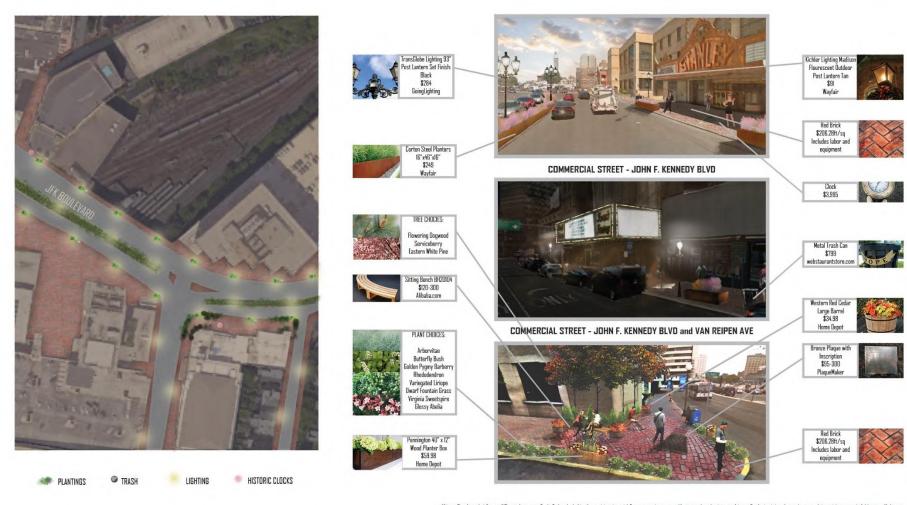




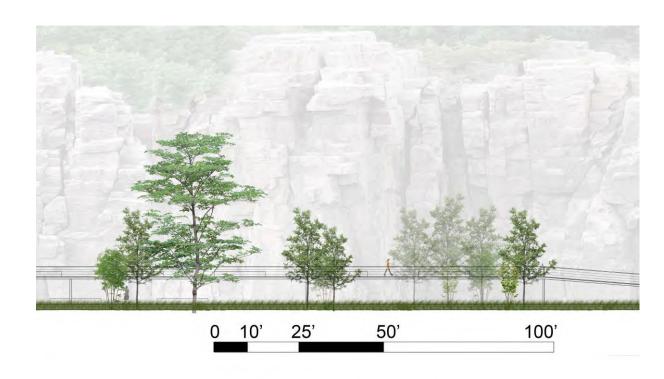




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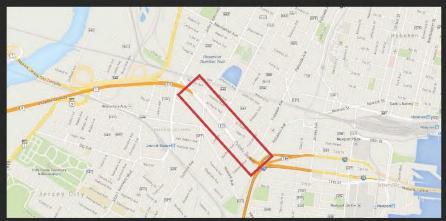


FOSS/ THOMSON 12/18/14



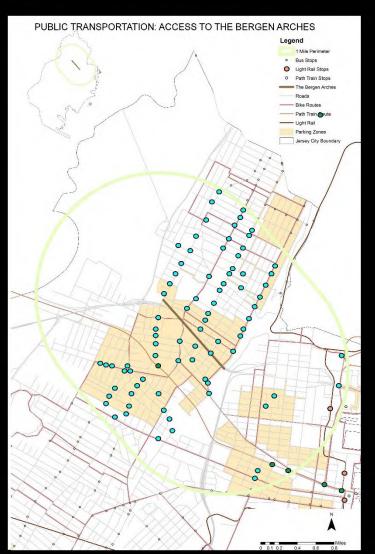
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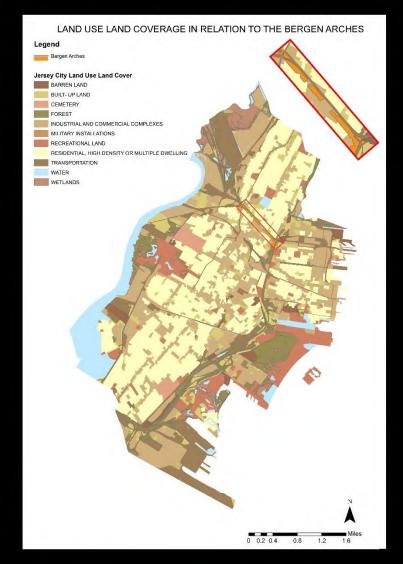
CONTEXT MAP





FOSS/ THOMSON 12/18/14





12/18/14

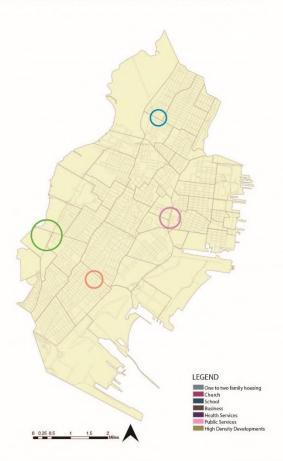
FOSS/ THOMSON ENTRANCE: HOBOKEN AVE & PALISADES AVE. ENTRANCE: HOBOKEN AVE & BALDWIN AVE ENTRANCE: HOBOKEN AVE. & SUMMIT AVE

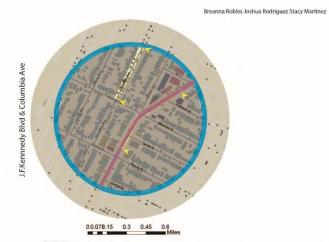
PROGRAMMING THE BERGEN ARCHES LIESURE SEATING ART EXHIBITS SOCIAL SPACES HANDICAP DEVELOP EXITS ACCESSIBILITY PEDESTRIANS DEVELOP ENTRANCES HISTORY GEOLOGY -PRESERVATION-HORTICULTURE VOLUNTEER GARDENING JOBS ART EXHIBITS COMMUNITY ACCESS SURVEILLANCE LIGHTING SAFETY MASS TRANSIT COMMUNITY OPEN SPACE CONNECTIVITY HISTORY GEOLOGY ECOLOGY EDUCATION HORTICULTURE ART SUSTAINABILITY











The Heights
Neighborhood Main Street
County Road
Kennedy Blvd is a well traveled streets with motal as well as pedestrian traffic. The area is
filled with schools, churchs, businesses and homes so there is always activity on the streets.

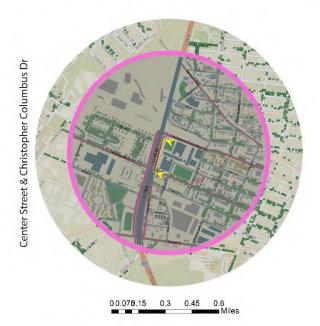








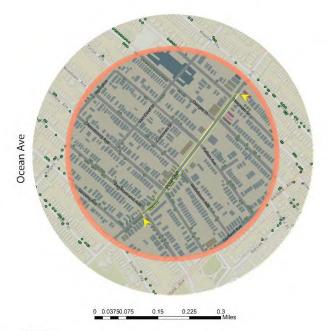




Downtown Frontage Road County Road

Littered with old warehouses and vacant homes, Center St, is a frontage road that runs parallel to I-78 and also has an exit from it coming onto the street. The area has high schools, shopping marts, businesses and active residents so it recieves heavy foot as well as motal traffic.





Greenville Mixed Neighborhood Street

Ocean Ave is mostly surrounded by homes. Mixed residences line the street, small businesses being a major factor of the street. There are abandoned lots, and vacant buildings that also line the street that people still make use of. The arearecently went under development giving the area new affordable houses for people to live in.



J.F.K Blvd. & Columbia Ave













Ocean Ave













Center St & C.Columbus Dr













JERSEY CITY DESIGN PROPOSALS

Joshua Rodriguez / Stacy Martinez / Breanna Robles

Implementation of Walking Tours

Waterfront Art Walkway

Portable Collection of Public Art

Temporary Art Installations

Public Art Plazas

Local Artist Priority

Call for Artists Applications

Percent for Art Program

One Percent of Development to the Arts

Strong Ties to the Community

Storefronts, Facades, and other unusual Sites for Art

Teaches and Engages Community

Exhibitions of Temporary Art in the City

Clear Commitment to Student Artists

Permission Pieces Throughout the City

Strong Aesthetic Presence in Urban and Rural Areas

The Community has a Strong Voice in the Selection Process

Public Art Exhibition Events

Commitment to the Community of Jersey City

December 11th, 2014

Art House Productins Partnership

Community Gardens

Getting the Community Involved in City Events

Commitment to Community Events

Mural Arts Program







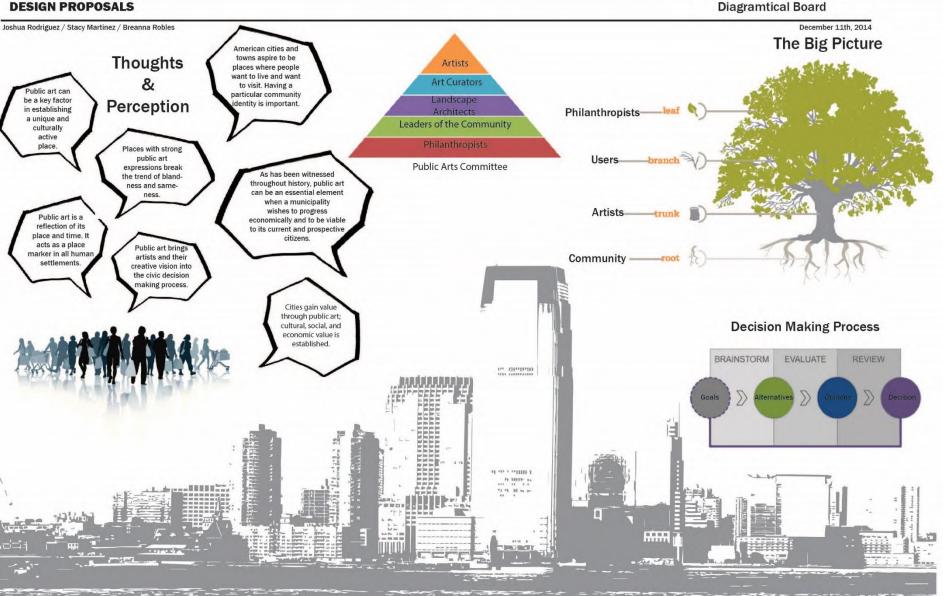








Public Arts Program Jersey City Diagramtical Board



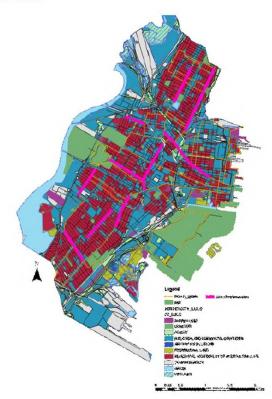
Joshua Rodriguez / Stacy Martinez / Breanna Robles
December 11th, 2014



DECEMBER 2014

The first diagram shows areas throughout Jersey City where invterventions similar to the one we designed can be implemented.

The diagrams below show the most important items that were used to decide why a bike path leading down Manila Ave, past the Grove Street PATH station, and down to Liberty State Park.



DECEMBER 2014

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The diagrams below show the most important items that were used to decide why a bike path leading down Manila Ave, past the Grove Street PATH station, and down to Liberty State Park.

Density Diagram



Lighting Diagram

Points of Interest

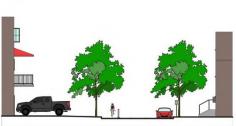




DECEMBER 2014

PLAN





SECTION



PERSPECTIVE

GRAND ST.

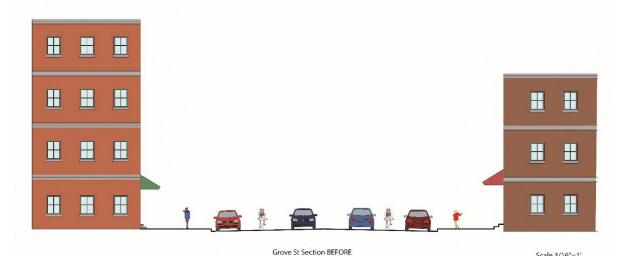


PLAN SECTION



PERSPECTIVE

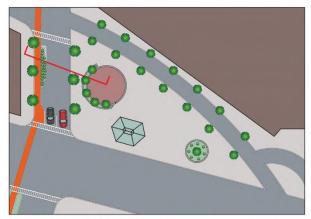
December 2014





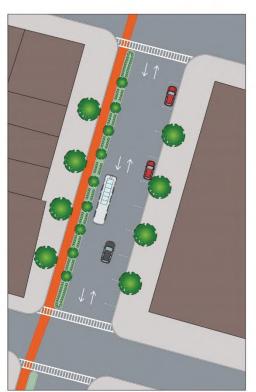
Scale 3/16"=1'

December 2014



Call Out Plan Grove Path Plaza

Scale 1/32"=1'



Call Out Plan of Bike Path Scale 1/167



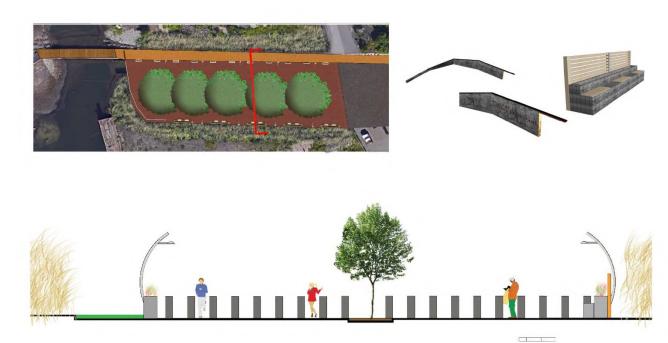
Section 1 Grove Path Plaza

Scale 3/16"=1'



Grove St Bike Path Plan

DECEMBER 2014





AMBER BETANCES / LORRI LINDSAY / CHRISTIE SALIBA

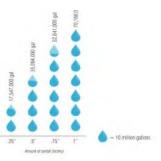
WHAT IS GREEN INFRASTRUCTURE?

DECEMBER 2014



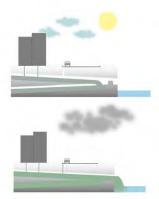
RAIN BARRELS

- Collects and stores roof water run off that can be reused when necessary and saves water from going into the combined sewer systems
- An estimated total of 58, 490 residences in Jersey City can install multiple rain barrels and conserve up to 1200 gallons per household
- The diagram to the right describes how much water could be conserved throughout Jersey City based on our estimates on a 1200sf roof area





NJDEP ARCGIS DR. VAN ABS GOOGLE EARTH AMBER BETANCES / LORRI LINDSAY / CHRISTIE SALIBA



WHAT IS A COMBINED SEWER SYSTEM?

- Combined Sewer Systems are sewer systems designed to collect stormwater runoff, domestic sewage, as well as industrial wastewater in the same pipe, bringing it to a publicly owned wastewater treatment work facility
- · These systems are not designed to handle large rain storm events

WHAT IS A COMBINED SEWER OVERFLOW?

- Combined Sewer Overflows occur when the combined sewer systems over-capacitate from a storm event
- Excess untreated water is discharged directly into local waterbodies such as rivers, oceans, streams, etc.
- The excess water may contain untreated sewage that can gravely impact human health, as well as water quality for the rest of the city

DESIGN INTERVENTION: IMPLEMENTING GREEN INFRASTRUCTURE IN JERSEY CITY

- · 65% of Jersey City uses combined sewer systems and currently has 21 CSO sites
- The city currently lacks the funding to upgrade their current water infrastructure: green infrastructure is an alternate cheap and highly effective way to curb excess water from entering Jersey City's sewer systems
- · Through analysis and investigation, our group found that certain areas benefit from green infrastructure over other areas
- · Abandoned lots dispersed throughout the city serve as prime opportunities where green infrastructure can be implemented successfully



CSO points overlayed on the sewersheds of Jersey City show the spread of the 21 CSOs. This group address design implementation in one watershed to serve as an example for the rest of the city.



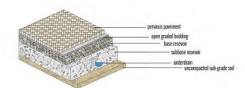
Vacant lots overlayed on income levels found in Jersey City show the correlation between low income areas and the density of vacant lots in the area.

WHAT IS GREEN INFRASTRUCTURE?

- . Green Infrastructure is an approach to stormwater management that mimics the natural water cycle
- · Helps prevent and delay water runoff from entering piped infrastructure, reducing the stress on combined sewer systems
- · Neighborhood aesthetic amenity through creation of green space, street strees, gardens, etc.
- · Our group plans to use a range of green infrastructure implementation as described below, as well as in our designs

PERVIOUS PAVEMENT

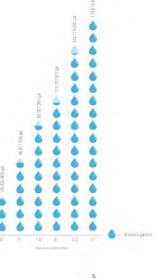
- Designed to allow water to infiltrate through the surface of the pavement where water is naturally filtered and pollutants removed
- An estimated total of 7,603,200 square feet of standard impervious concrete sidewalk exists in Jersey City, this could-be replaced with pervious pavement
- The diagram to the left describes how much water could be conserved throughout Jersey City based on our estimate, depending on the amount of rainfall



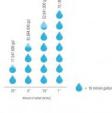
downspeut screen rain barrel spigot

RAIN BARRELS

- Collects and stores roof water run off that can be reused when necessary and saves water from going into the combined sewer systems
- An estimated total of 58, 490 residences in Jersey City can install multiple rain barrels and conserve up to 1200 gallons per household
- The diagram to the right describes how much water could be conserved throughout Jersey City based on our estimates on a 1200sf roof area



DECEMBER 2014

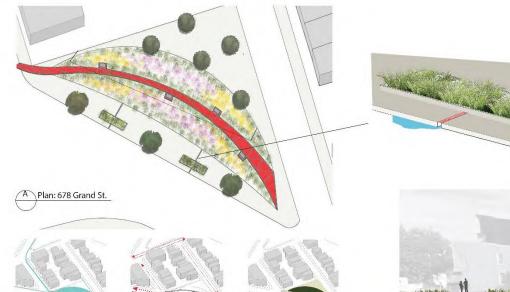


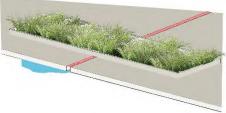


Stormwater Diagram

AMBER BETANCES / LORRI LINDSAY / CHRISTIE SALIBA

DECEMBER 2014



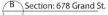


678 Grand St.

This site covers about 7,067 sq ft. or .16 arces it is located on a residential street that intersects a commercial road. The conditions of the site are in much need of repair. The site is on a sloping street and has a sewer drain right at the point of the site, making it a perfect candidate for rainwater collection.

The design allows this area to be fully used for stormwater collection while providing an asthetically pleasing environment that welcomes the people of this community. It can be used as a walkway or a place for people to sit and enjoy their surroundings. This design rejuvenates the neighborhood while creating a susitanible and educational environment for kids and adults.







Green Infrastructure Diagram

Circulation Diagram





Jersey City Environmental Resources

2015

Created by: A. L. BETANCES, M. W. BOWMAN, R. F. CONTI, J. M. FOSS, S. IN HONG, M. R. LIM, K. LIVSHITS, S. N. MARTINEZ, L. M. MATUSIAK-LINDSAY, A. MUSSO, B. ROBLES, J. RODRIGUEZ, C. A. SALIBA, A. P. SCHENKER, A. P. SCOTT, K. A. TAYLOR, A. J. THESING, S. M. THOMSON

Under the Direction of: D. C. Smith and J. M. Hartman

In partial completion of requirements for Intermediate Landscape Architecture I (11:550:331, Fall 2014)

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We would like to acknowledge the assistance of Marcus Knowlton, for help with production of all these materials. Both the Department of Landscape Architecture and the Center for Urban Environmental Sustainability supported our course and travel costs. The Jersey City Planning Office, especially Bob Cotter, provided much of the data used in the GIS analysis presented in this report. The Jersey City Environmental Commission has been generous with time and information.

Finally, we would like to acknowledge Peter Basso who originally suggested this project.

Recommended Citation:

Center for Urban Environmental Sustainability. 2015. Jersey City Environmental Resources. 48pp.

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Jersey City is in New Jersey's Watershed Management Area 5 and within four sub watersheds:

Hackensack River,

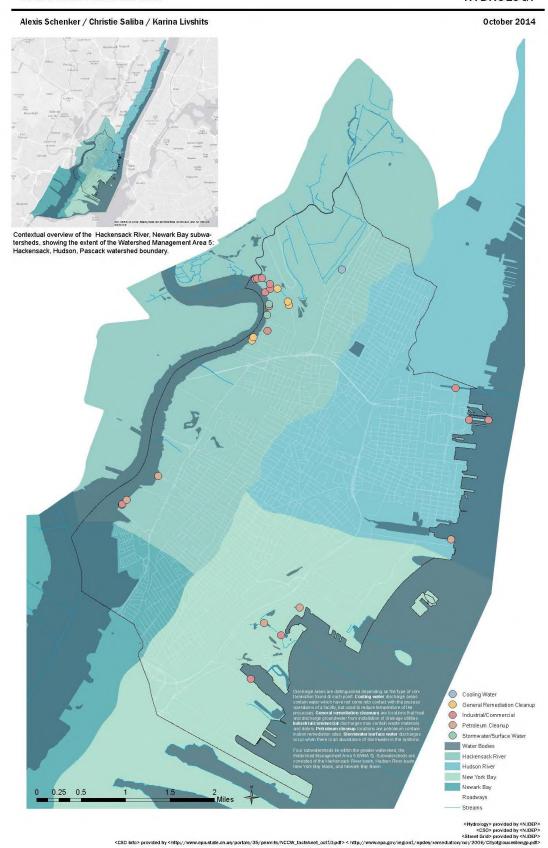
Hudson River,

New York Bay, and

Newark Bay.

This map shows many petroleum cleanup sites located around the water's edge as well, as previously talked about how many sites along this area were contaminated.

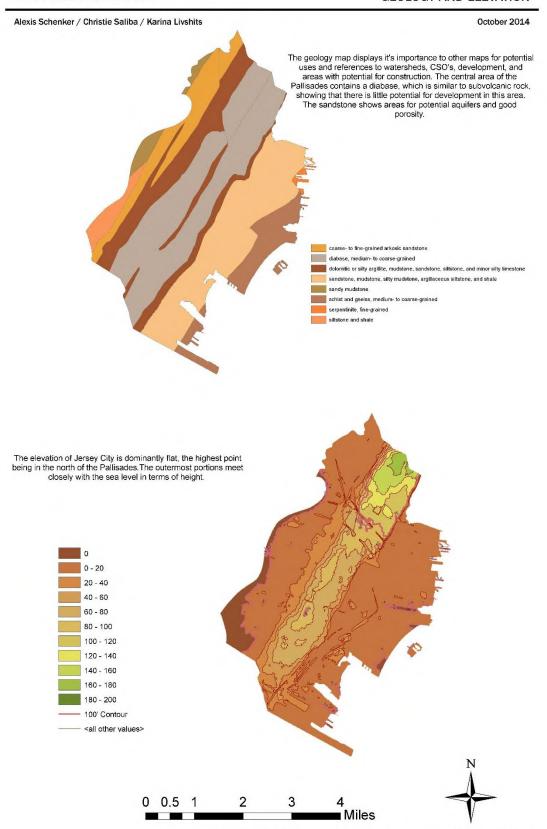
By understanding the hydrology, alternatives to reduce the impacts of Combined Sewer Overflows.



Geology is very important to the physical form of Jersey City.

The diabase that runs through the center which is similar to sub volcanic rock, which composes what we call The Palisades Sill. This area is difficult to build upon because of the very hard character of the bedrock, which is very close to the surface.

The elevation map shows that much of Jersey City is quite flat. Notice how the shape of the gray and dark brown areas, on the geology map, resemble the shape of the highest topography. This is the southern tip of the Palisades - a line of steep cliffs along the west side of the lower Hudson River. It includes the highest point in the city, at about 200 feet.

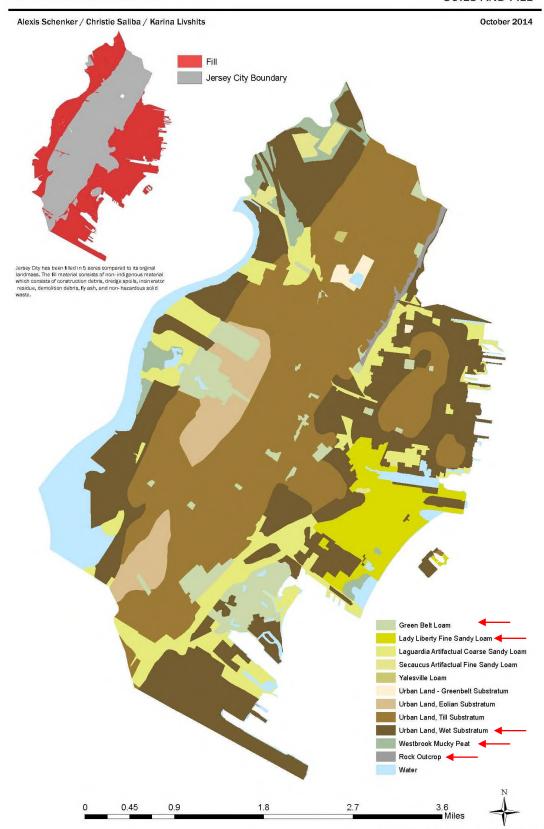


The significance of the geology information is reinforced by these maps.

The red areas, in the map in the upper left hand corner, show where there has been significant fill added and reminds us that much of Jersey City was wetlands until the industrial age. When we compare the patterns seen in the geology and fill maps, with the soil map, similarities persist.

The soils map is critical in locating wet sub-soils and areas where soils have very low permeability because of high clay content. Some of the areas and soil types with these characteristics are indicated with the red arrows. They are quite common.

Both of these characteristics can exacerbate stormwater run-off rates that lead to CSO contamination because they indicate surfaces that are not able to absorb rain.



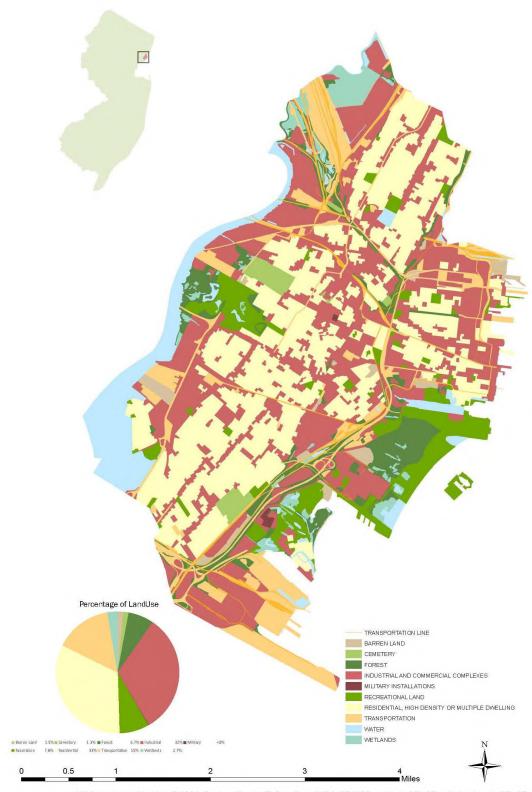
This map presents the broad land cover categories, such as forest or residential.

The graph and the map both reflect the fact that residential land use is as common as industrial and commercial land use.

It also shows that land use for transportation covers nearly as much of the city as the combined categories of recreation, forests, and cemeteries.

This is one of several ways of representing the fact that Jersey City is densely built and includes relatively little permeable surface. Alexis Schenker / Christie Saliba / Karina Livshits

October 2014



This map portrays the birds and fish species found along the waterfront. Some of the species are categorized as endangered. Because the area along the Morris Canal can provide habitat for the endangered species, they are shown in red.

The areas that are wetlands or forested or adjacent to open water tend to be the areas that are likely to support these species, because of habitat quality.

In addition, Jersey City is located along the route for the Atlantic Flyway Migration, showing potential for developing more wetland areas as habitats for these threatened species.

October 2014 Alexis Schenker / Christie Saliba / Karina Livshits The climate of Jersey City is generally a humid subtropical climate, with hot summers and cold winters The Atlantic Flyway is the bird migration route along the Atlantic Coast and Appalachian Mountains. About 40% of bird species often Threat level of Bird & Fish species: found in the migration route are birds of special concern and/or conservation needs. Jersey City is one of the cities included in this Level 2: Special Concern Little Blue Heron Egretta caerula migration pattern. Glossy Ibis Plegadis falcinellus Snowy Egret Egretta thula Tricolored Heron Egretta tricolor Bobolink Dolichonyx oryzivorus Level 3: State Threatened Black-crowned Night-heron Nycticorax nycticorax Cattle Egret Bubulcus ibis Osprey Pandion haliaetus Level 4: State Endangered Peregrine Falcon Falco peregrinus Northern Harrier Circus cyaneus Level 5: Endangered Atlantic Flyway Migration Shortnose Sturgeon Acipenser brevirostrum This map shows the habitats of Bird and Fish No Concern species located along the waterfront areas of Jersey City. The area in dark red is the Morris Canal, consisting of the endangered Special Concern fish, the Shortnosed Sturgeon. All other threatened species and species of concern State Threatened listed, are commonly seen throughout the red shaded areas on the map, in relation to State Endangered their corresponding color of threat level. Endangered

<Atlantic Flyway Migration pattern> provided by ">http://conservation.audubon.org/atlantic-flyway>">

17

0.425

0.85

2.55

3.4 Miles As part of the inventory process, we compiled lists of the sites, monuments, buildings and neighborhoods that have historic significance.

This resource is exceptionally rich and reflect long term and ongoing efforts.

Amber Betances / Breanna Robles / Michelle Lim

November, 2014



ARMBRUSTERS GREENVILLE SCHUETZEN PARK ca.1875

PAULUS HOOK FROM HARSIUMUS FROM IN 1893

4th REGIMENT OF NATIONAL GUARD ca. 1869

Jersey City is full of wonderful historical elements. Whether they are houses, methods of transportation, buildings, or areas of land, all of these historical monuments add character. Some of the key, uncommon historical models are shown.

ARMBUSTERS SCHUETZEN PARK

Previously a thriving amusement park, Armbusters Schuetzen Park is now occupied by a Walgreens and was previously the site for Republic Container. Purchased in 1875, the park was noted for its social and athletic events and outings. The park was located along Kennedy Boulevard, between Gates and Seaview Avenues.



Car and passenger elevators were well used during the late 1800s. They were used to carry both cars and their drivers up or down from varying steep heights where roads were practically impossible to drive on.

JOURNAL SQUARE

Before it became a commercial district, Journal square was the site of many farmhouses and manors. The square was created in 1923 when the newspaper company Jersey Journal established itself in the area. Currently Jersey City is undergoing much redevelopment.

PAULUS HOOK

Paulus Hook is currently one of the most desireable neighborhoods in Jersey City. It was colonized in 1633 and was a prime location during the American Revolution.

FOURTH REGIMENT ARMORY

Located at 678 Montgomery Street near McGinley Square, the Fourth Regiment Armory burned down in 1927. It was replaced by the Jersey City Armory ten years later, and is now a military training and mustering facility.

JERSEY CITY MEDICAL CENTER

Renamed in 1885 as the Jersey City Hospital, it has expanded and has been renovated. In 1988 it was declared bankrupt and became a private, non-profit organization.

LOYAL ORDER OF MOOSE

Founded in 1888, the Loyal Order of Moose is a fraternal and service organization, with Lodge 266 found in Jersey City .

PATERSON PLANK ROAD

A road that runs through Passaic, Bergen, and Hudson Counties, Paterson Plank Road connects Paterson and the Hudson River waterfront, which still exists. It has largely been superceded by Route 3.

ST. DOMINIC ACADEMY

St. Dominic Academy is a private college-prepatory for girls. The school was founded in 1878 with the objective to educate children of immigrants, primarily German.



CAR AND PASSENGER ELEVATOR ca. 1873



JOURNAL SQ. ca. 194



JERSEY CITY MEDICAL CENTER ca. 1932



LOYAL ORDER OF THE MOOSE CLUBHOUSE

ST. DOMINIC'S ACADEMY co. 1878



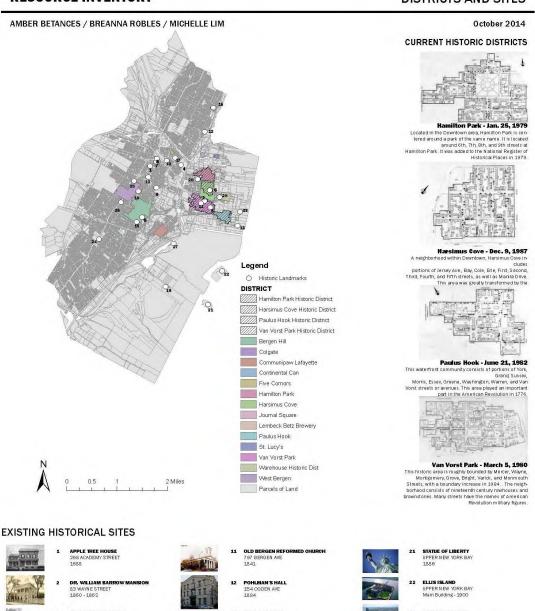
PATERSON PLANK RD. ca. 1908

We can see a relationship to historic settlement patterns and landfilling to geology and early topography in the distribution of historic neighborhoods, parks, and landmarks.

In many ways, Jersey City retains a rich record of their history

their landmarks represent culture and industry the positions and local patterns of residential districts indicate distinct periods of growth their places of worship catalogue the cultures of their immigrants

This is a very valuable element among their environmental resources. Efforts to protect and energize this resources must continue and grow, in order to retain the rich diversity and character of the city.











WILLIAM L. DICKINSON HIGH SCHOOL 1906



FICKEN'S WAREHOUSE 766 G RAND STREET 1910



GRACE VAN VORST CHURCH 39 ERIE STREET 1853



LABOR BANK BUILDING 26 JOURNAL SQUARE 1928



LOEWS JERSEY THEATRE



JERSEY CITY MEDICAL CENTER



PROSPECT HALL END OF ESSEX STREET 1807



JERSEY CITY PUBLIC LIBRARY 1891



ST. PATRICK'S CHURCH 492 BRAMHALL AVE





WILLIAM F. BRENNAN COURTHOUSE 575 NEWARK AVE 1910



Y.M.C.A 654 BERGEN AVE 1925



LIBERTY STATE PARK





EXCHANGE PLACE FOOT OF MONTGOMERY STREET



24 NEW JERSEY CITY UNIVERSITY 1929



FAIRMOUNT HOTEL 2595 JFK BLVD 1909 - 1912





GREAT ATLANTIC AND PACIFIC TEA COMPANY WAREHOUSE 150 BAY STREET 1900

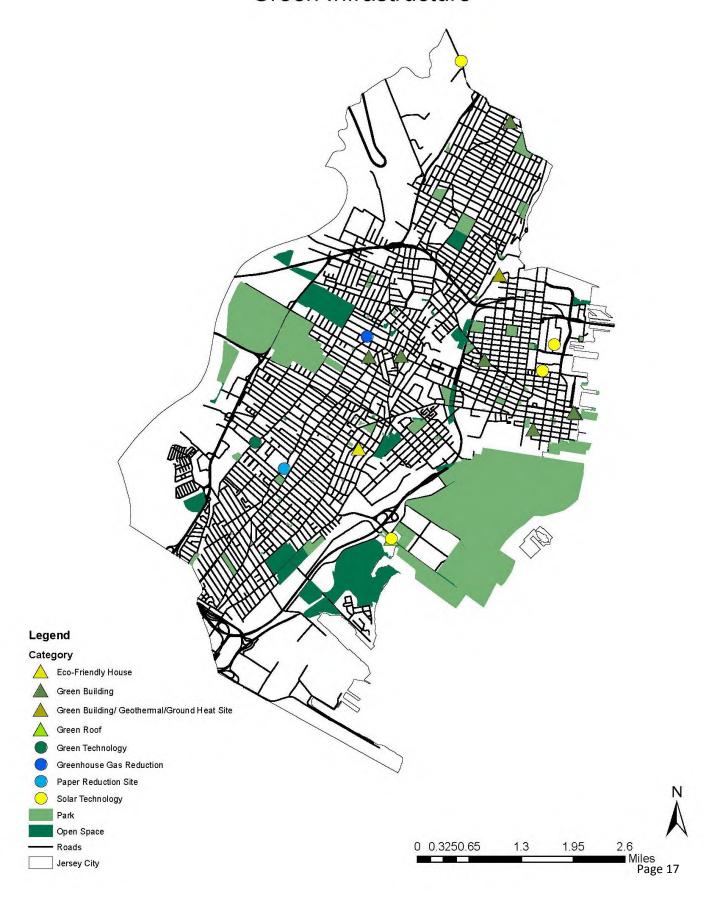
The Jersey City Green Map

(http://sustainablejc.org/wordpress/jc-green-map/) provides a very broad record of open space, markets that sell local products, bike paths, and places that are implementing or developing new sources of energy.

This map used the Jersey City Green Map and resources such as news articles, to document the growing "greenness" of Jersey City.

We did not find a record of rich storm water management best practices such as bioswales, rain gardens, treatment wetlands, that would be important to the overall green infrastructure of Jersey City. We propose this as an important area for improvement.

Green Infrastructure



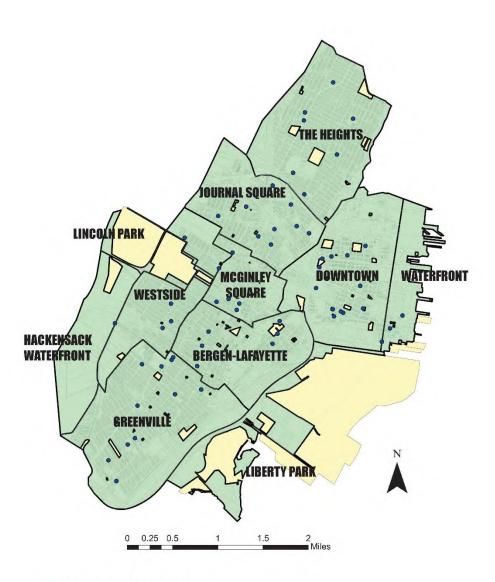
The environment of a place includes the humans that populate it. Using 2010 census data, we looked at Jersey City by neighborhoods.

We found a number of neighborhood descriptions and boundaries. We chose to use this one because we could associate census data specific to these neighborhoods.

You may notice that major open spaces are shown in yellow. We removed major open spaces when we calculated population densities.

Matt Bowman / Laura Lindsay / Alex Thesing

November 2014





These graphs summarize information about the population of Jersey City by neighborhood. Each neighborhood is assigned a distinct color, as show at the top of the page.

The first four graphs are common descriptors of population:

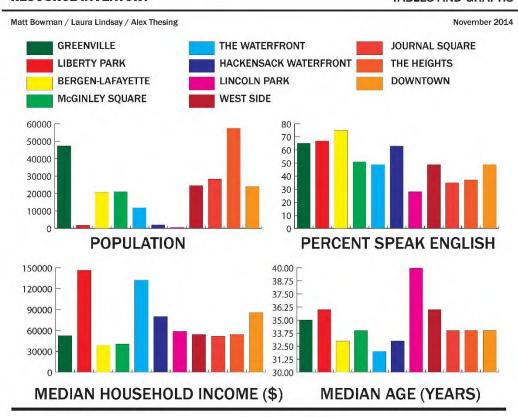
- Number
- PerCent of Households where English is spoken
- Median Income and
- Median Age of Head of Household

Remember that a median is the value at which one half of the population is above and one half is below. (It is different than average – an average kind hide poverty if there are a few extremely rich households.)

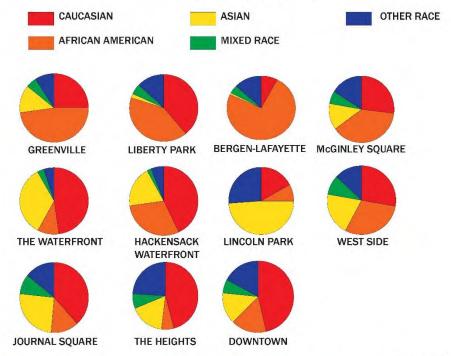
The pie or circle graphs show race information. (Caucasian is another term for white.)

JERSEY CITY ENVIRONMENTAL RESOURCE INVENTORY

AMDINISTRATION AND DEMOGRAPHICS TABLES AND GRAPHS



NEIGHBORHOOD DIVERSITY



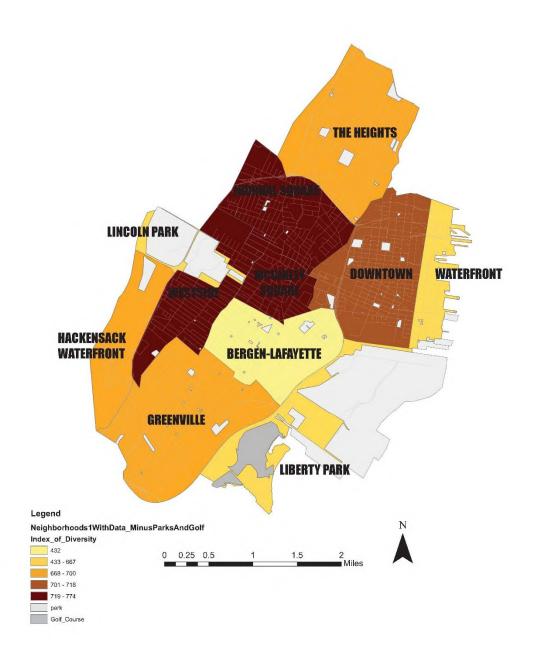
Data provided by US Census Charts and Graphs provided by Administration and Demographics Group The proportion of races within a neighborhood is often used as a way of indicating diversity.

We borrowed an information index that is used in ecology to better summarize the diversity data. The index is the Simpson's Index of Diversity. In this case it can be defined as:

a measure of diversity which takes into account the number of races present, as well as the relative abundance of each race. As the number of races and evenness in their proportions increase, so diversity increases.

In this map, the communities that are shown in dark brown have the highest diversity. The neighborhoods with light yellows are strongly dominated by a single race. Matt Bowman / Laura Lindsay / Alex Thesing

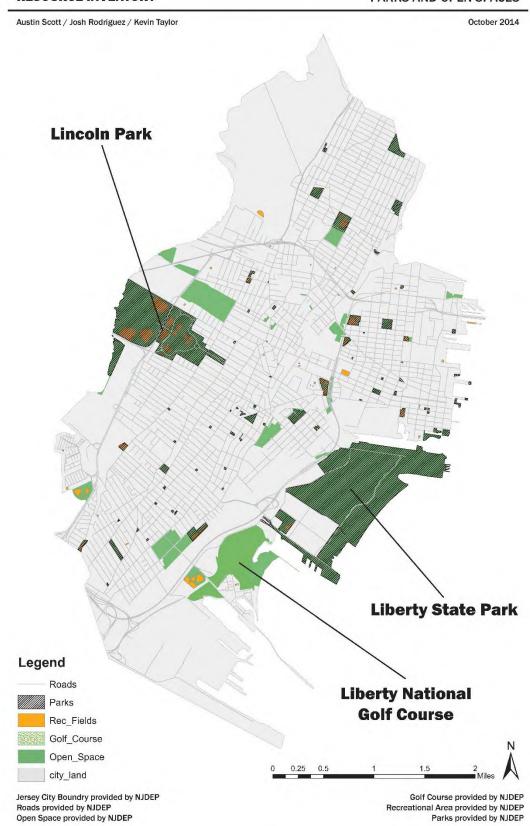
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Parks and open space are often correlated with community health. The presence of large parks like Liberty State Park and Lincoln Park bring over all ratios between population size and acres of park into a good range. That is, in 2011 the Trust for Public Land City Park Inventory found a population:park space ratio showed an average of 2756 people per acre of park. Our current data shows that Jersey City has an above average ratio of about 1600 people per acre of park.

However, neighborhood park space is not readily available to large numbers of residents. Because of the way recreation activities are organized and distributed, we recommend further analysis that includes recreation facilities and neighborhood by neighborhood analysis.

We further encourage Jersey City to re-invigorate its efforts to follow up on the 2008 Parks and Recreation Master Plan or to update the Master Plan to reflect new additions and redevelopment plans.



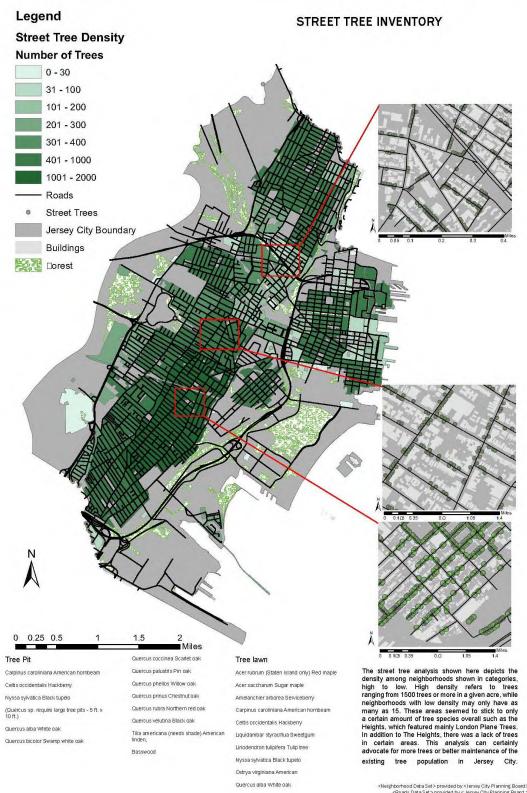
Street trees are very important in creating the fabric of the urban forest.

The current work on street trees and tree cover in Jersey City will help identify measureable goals for improvement.

For now, we show density of street trees in Jersey City with this map. Note how the enlargements of map sections on the right show uneven to even distribution of street trees in areas with low to high street tree densisty.

Austin Scott / Kevin Taylor / Joshua Rodriguez

October 2014



Both the history and location of Jersey City make it a good place for a thriving Arts Community.

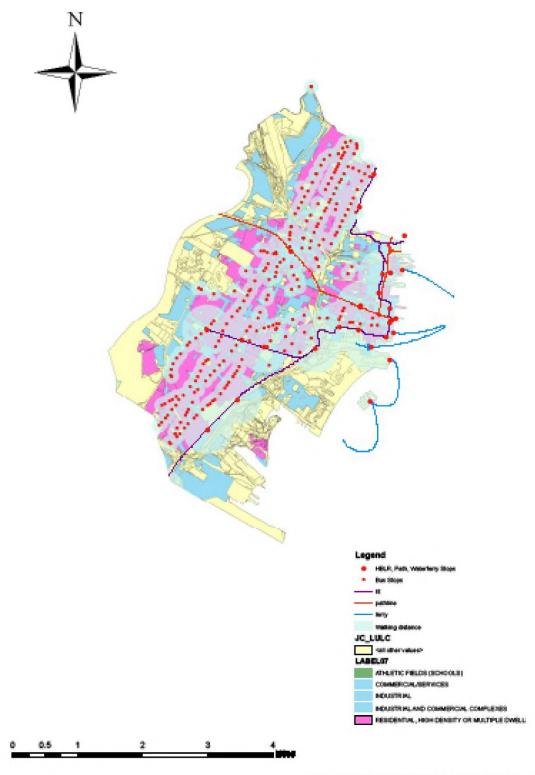
Our inventory begins to show this, but better documentation and mapping could help grow this community.



Public transportation is essential to city function. There are ways that this has been recognized by Jersey City, but there is room for improvement that must accompany each re-development plan.

Seungin Hong/ Rich Conti/ Jon Foso

November 2014



Schools are located in most areas of Jersey City. This map is organized by School District and education level.

Where we had addresses, private schools were included.

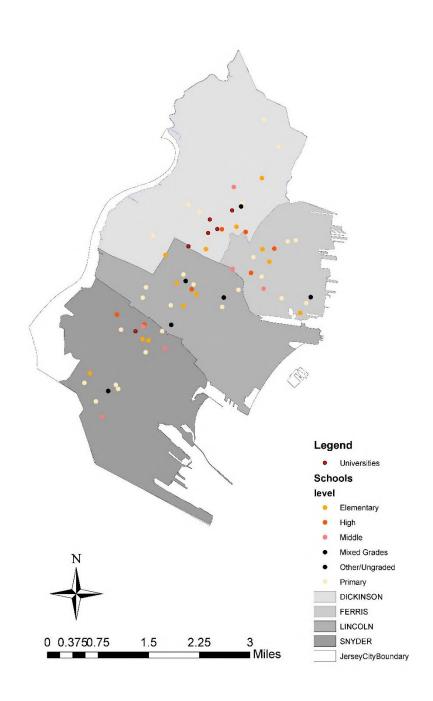
Additional study of the relationships between:

- population characteristics and school locations
- public transportation stops and school locations
- school curricula and school locations

might provide the Jersey City School Board with important insights.

Seungin Hong / Richard Conti / John Foss

November 2014



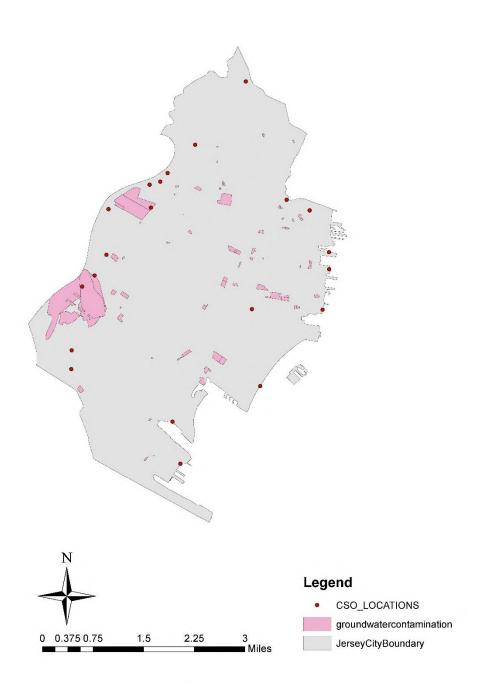
There are 21 sites where combined sewer overflow outlets occur in Jersey City.

When storm water pipes flow into sanitary sewer pipes the two water flows can combine and overload, then bypass the water treatment facility. As a result, in many but the shortest rainfalls, sanitary sewer flows into the Hudson and Hackensack Rivers from Jersey City.

The Jersey City Municipal Utility Authority must develop programs to decrease, and eventually eliminate, these outfalls. Several kinds of solutions can be integrated in to development, redevelopment, and street repair programs. The first thing that needs to be done is to document when these outfalls occur and how much water is being discharged, for how long, without treatment.

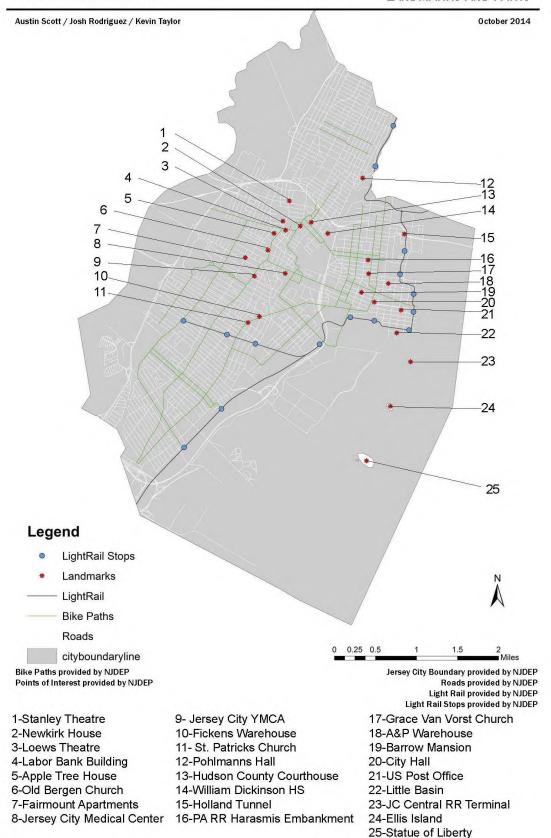
Developing green infrastructure demonstrations can help the City decide how they want to manage storm water in the future. Seugin Hong / Jon Foss / Rich Conti

November 2014



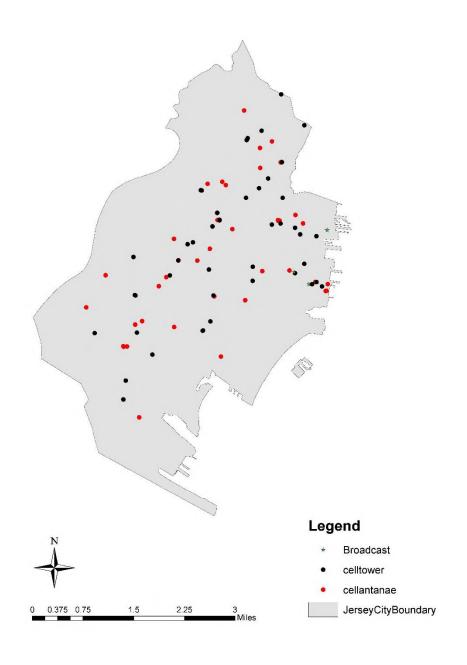
The following maps include a variety of resource information. Each deserves better documentation and further study of their importance and consequences.

Landmarks and Paths	37
Communications	38
Critical Facilities	39
Landfills	40
Potential pollution sources	41



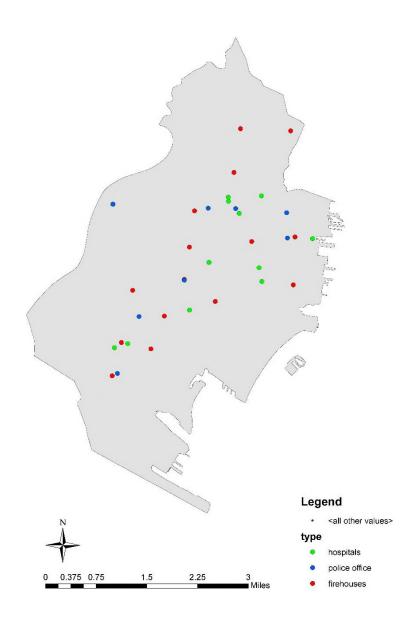
Seungin Hong / Richard Conti / John Foss

November 2014



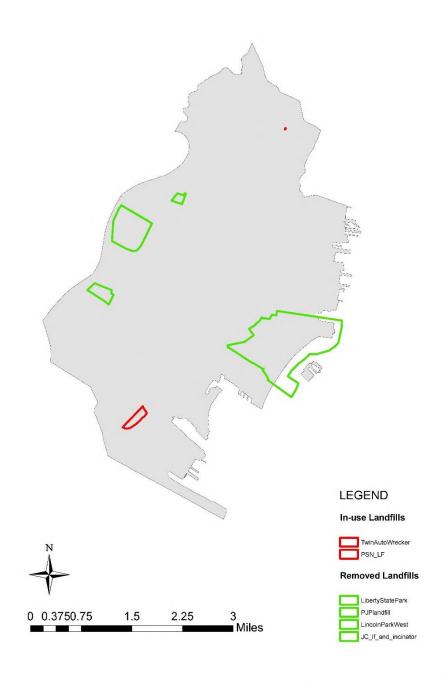
Seungin Hong/ Rich Conti/ Jon Foss

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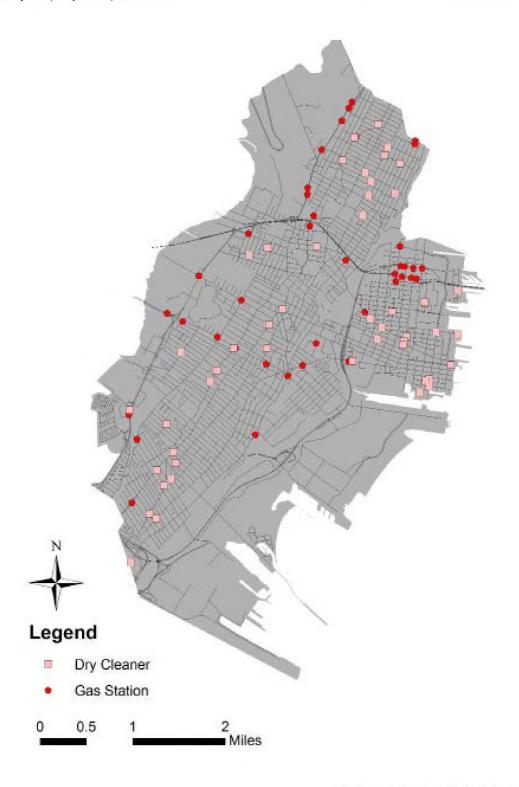
Seungin Hong / Richard Conti / John Foss

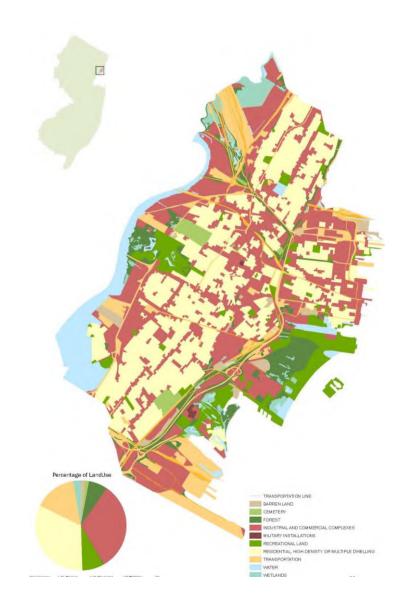
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Anthony Musso/Stacy Martinez/Shaun Thomson

October 2014





Recommended Citation:

Center for Urban Environmental Sustainability. 2015. Jersey City Environmental Resources. 50pp.